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MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY
UNITED STATES DEPARTMENT OF AGRICULTURE

Number 129

January, 1925

TRUCK CROP INSECT INVESTIGATIONS

J. E. Graf, Entomologist, in Charge

C. E. Smith, Assistant Entomologist, who visited Washington for the purpose of doing library work on certain truck-crop insects, has since returned to Baton Rouge, La., his official station.

E. M. Searls, Field Assistant, Madison, Wis., and N. F. Howard, Associate Entomologist, Birmingham, Ala., attended the Cincinnati meeting of the National Cannery Association and presented papers on the pea aphid and bean insects.

Rodney Cecil, Junior Entomologist, Birmingham, Ala., has been granted leave of absence to attend Iowa State University for additional graduate study.

David Dunavan, a recent graduate of Oregon Agricultural College, has been reappointed Agent to take charge of the truck-crop laboratory at Toppenish, Wash., where he will conduct wireworm investigations in cooperation with the Cereal and Forage Division and the Washington State Experiment Station. M. C. Lane, of the Cereal and Forage Division, will be in general charge of these studies.

R. E. Campbell, Associate Entomologist, in charge of the laboratory at Alhambra, Calif., on his return from Washington stopped over at Gulfport, Miss., and New Orleans, La., to confer with Bureau officials at those places regarding the pepper weevil and general truck-crop insects.

Inspections of the farms in the neighborhood of Foley, Baldwin Co., Ala., have just been completed and no sweet-potato weevils were found in spite of the fact that a light infestation had been discovered in a potato curing house at Foley. Plans are now under way to conduct a second inspection at a later date in order to locate the infestation on the farms to permit eradication before the weevil has had an opportunity to spread.

J. E. Dudley, Assistant Entomologist, in charge of the Madison, Wis., laboratory, is rapidly recovering from a serious attack of pneumonia, and is making plans to visit California to conduct experiments on the pea aphid in that State during the coming spring in cooperation with R. E. Campbell, Associate Entomologist.

N. F. Howard recently visited Chillicothe, Ohio, where he conferred with A. E. Miller regarding cooperative work on the Mexican bean beetle in Ohio, which is being conducted by the Bureau of Entomology and the Ohio Experiment Station.

Among the recent visitors at this office during January were Dr. William Moore, of the American Cyanamid Co., who conferred with Bureau officials regarding tests with calcium cyanide, and Dr. D. L. Van Dine, field director of the Tropical Research Foundation, who is in charge of the field investigations for the control of sugarcane insects and diseases in Cuba.

FOREST INSECT INVESTIGATIONS

F. C. Craighead, Entomologist, in Charge

J. M. Miller and J. C. Evenden spent the first three weeks of January in the Washington office conferring on plans for the western bark-beetle work for the coming year. Conferences were held with the Forest and Park Services on projects which will involve Bureau cooperation.

SOUTHERN FIELD CROP INSECT INVESTIGATIONS

J. L. Webb, Associate Entomologist, Acting in Charge

O. G. Babcock of Sonora, Tex., recently visited the Goodnight Ranch, Goodnight, Tex., for the purpose of examining bison and cattelo for cattle grubs and other parasites. The bison and cattelo were infested with cattle grubs to about the same extent as domestic cattle. An examination of carcasses of bison slaughtered for food did not yield anything of especial interest.

D. C. Parman, who has charge of the branch laboratory dealing with insects affecting animals and poultry at Uvalde, Tex., spent the week of January 19 at the Dallas laboratory for the purpose of consultation.

M. L. Gingell, Inspector of the Insecticide and Fungicide Board for the southwest district, is establishing headquarters at the Dallas office.

T. E. Holloway and W. E. Haley, of the Sugarcane Insect Laboratory at New Orleans, attended the scientific meetings at Washington early in January.

J. W. Ingram, engaged in rice insect investigations and connected with the Sugarcane Insect Laboratory, attended the scientific meetings and was in Washington for some time during January doing library work.

An article entitled "The New Pink Borer of Sugar Cane and Corn," by E. K. Bynum, of the Mississippi Plant Board, and T. E. Holloway, appeared in Annals of the Entomological Society of America for December.

STORED PRODUCT INSECT INVESTIGATIONS

E. A. Back, Entomologist, in Charge

The Dried Fruit Association of California, in a letter to the Secretary of Agriculture dated January 19, 1925, advises that its Executive Committee has appropriated an amount not to exceed \$1,000 to augment the Federal appropriation for the study of insects attacking dried fruits.

At the request of the National Furniture Warehousemen's Association, Dr. E. A. Back attended its midwinter meetings held at the Bon Air-Vanderbilt Hotel at Augusta, Ga., and gave a talk on the subject of storage pests.

On January 13 J. C. Hamlin, in field charge of Dried Fruit Insect Investigations, met with the Dried Fruit Association of California at the Commercial Club, San Francisco, for the purpose of taking part in the discussion of the infestation problems. This Association embraces all of the dried-fruit interests of the State, including both cooperative associations and independent packers. Some thirty members were present. Mr. Hamlin's address was directed principally toward the lines of investigation which need attention at the moment. On the evening of the same day Mr. Hamlin was a guest at the annual banquet of the Association.

While in San Francisco, J. C. Hamlin conferred with E. F. Van Duzee, of the California Academy of Sciences, relative to systematic work on Hemiptera.

BEE CULTURE INVESTIGATIONS

James I. Hambleton, Apiculturist, in Charge

James I. Hambleton attended meetings of State beekeepers' associations at Worcester, Mass., on January 6, Cambridge, Md., January 8, and Harrisburg, Pa., January 21. On January 22 and 23 he attended the meeting of the American Honey Producers' League in Chicago, and the meeting of the Chicago Northwestern Beekeepers' Association at the same place. He participated in the "short course" for beekeepers held at Cornell University, January 26 to 30.

E. L. Sechrist attended the meeting of the Maryland State Beekeepers' Association at Cambridge, on January 8, and was one of the instructors during the short course for beekeepers held at the North Carolina State College January 21 to 23.

W. J. Nolan attended the meeting of the Tennessee Beekeepers' Association, held at Nashville January 29 and 30.

Visitors at the Bee Culture Laboratory during January included the following: January 8, Clay Lyle, representing the apiary inspection service of the State Plant Board of Mississippi; January 7, C. R. Cutright, of the Ohio Experiment Station at Wooster; January 24, C. P. Dadant, editor of the American Bee Journal; and January 27, W. A. Bockstoce and wife, from Pittsburgh, Pa.

FRUIT INSECT INVESTIGATIONS

A. L. Quaintance, Senior Entomologist, in Charge

A. I. Fabis, who has been engaged in pecan insect investigations at Brownwood, Tex., has resigned from the service to enter the commercial field.

H. A. Adair, who has been assisting John B. Gill in connection with pecan insect investigations at Thomasville, Ga., is now temporarily stationed at Brownwood, Tex.

CEREAL AND FORAGE INSECT INVESTIGATIONS

G. A. Dean, Senior Entomologist, in Charge

In connection with the meeting of the American Association for the Advancement of Science in Washington during Christmas week, an informal session of Federal and State Hessian fly workers was held at Central High School on the morning of December 31. This was attended by some 35 Federal and State entomologists interested in this study, and a very profitable and helpful discussion was held.

A conference of Bureau entomologists interested in the study of the Hessian fly was held at the Bureau on January 5. The greater part of the day was devoted to a round-table discussion of methods of study, and particularly of statistical methods as applied to the determination of degree of infestation. Dr. L. O. Howard briefly addressed the conference concerning the attitude to be observed by the entomologists representing the Bureau in their contacts with the public. The following persons were in attendance: L. O. Howard, G. A. Dean, chairman, W. R. Walton, and J. S. Wade, secretary, of Washington, D. C.; C. C. Hill, P. R. Myers, and H. D. Smith, Carlisle, Pa.; C. N. Ainslie, Sioux City, Iowa; G. G. Ainslie, Knoxville, Tenn.; W. E. Cartwright, Centralia, Ill.; J. R. Horton, Wichita, Kans.; M. C. Lane, Toppenish, Wash.; W. H. Larrimer, West Lafayette, Ind.; P. Luginbill, Columbia, S. C.; W. J. Phillips, Charlottesville, Va.; G. I. Reeves, Salt Lake City, Utah; and A. E. Satterthwait, Kirdwood, Mo.

Prof. Geo. A. Dean left Washington January 7 on an extended trip to the West, and has since inspected the green bug infestations in Kansas, Oklahoma, northern Texas, and Missouri. He consulted with the entomologists of the various State Experiment Stations and arranged plans for a thorough survey of the green bug situation.

W. O. Ellis, who for more than five years has been attached to the corn borer investigational staff at Arlington, Mass., resigned from the service on January 12 to enter private business.

The laboratory quarters occupied by E. E. Russell, in immediate charge of the seed chalcis investigation in the Yuma Valley, were destroyed by fire on January 25, including all the office equipment and records. These quarters were located in a building occupied by the Department of the Interior which was entirely destroyed with a loss of about \$150,000. It is planned to continue the work at Yuma and to fit up temporary laboratory quarters as quickly as possible. In the meantime Mr. Russell is located temporarily at the entomological laboratory at Tempe, Ariz.

MISCELLANEOUS INVESTIGATIONS

(Items from the National Museum, contributed by S. A. Rohwer)

Dr. W. M. Mann spent the last week of January in Boston studying types and consulting with Dr. Wheeler on the classification of ants.

On January 8 Dr. A. G. Böving delivered his presidential address before the Entomological Society of Washington, his subject being "An Expedition to the Southeastern Shore of Iceland."

Dr. Carroll Fox, of the United States Public Health Service, has been working recently on the Museum collection of fleas. Dr. Fox has completed a key to the genera of fleas for the world.

B. Preston Clark has been in Washington since January 26, working with the Lepidoptera in the Museum collection. Mr. Clark has recently purchased the Oberthuer collection of Sphingidae, and with this addition now has the greatest collection of this family in the world.

Dr. Aldrich has received for study from the Vienna Museum the fifth lot of types of American Diptera. With this lot the total number of species has reached nearly 80. So far the shipment of types has been accomplished without any mishaps whatever, the packages going and coming without any damage. It is hoped that the study of the Vienna material may be continued in this way until all the American types of Diptera have been examined.

H. C. Hockett, who spent most of the month studying the collection of Anthomyiidae, returned to his home on Long Island on January 26.

L. H. Weld has returned to his duties in the Division of Insects after a six months' leave of absence.

Recently the Museum received the hide of a Panamanian howling monkey which was very heavily infested with the larvae of a bot-fly. The larvae have been determined by Mr. Green as belonging to the genus *Cuterebra*. This is the first known record of a species of this genus infesting any of the primates, its usual hosts being various species of rodents. The specimen was collected by Mr. Baer, who was with the Marsh Darien expedition, and was one of the last specimens obtained by him before his death.

The Division of Insects recently received an interesting gift of coleopterous larvae from Dr. E. Rosenberg, Copenhagen Museum, Copenhagen, Denmark. This lot includes 21 different species belonging to 17 families, and is a very useful addition to the collection.

LIBRARY

Mabel Colcord, Librarian

NEW BOOKS

Barnes, P. T.

House plants and how to grow them. Garden City, Doubleday, Page & Co., 1923, 242 p., plates. (Amateur's book of the garden series.)

Frohawk, F. W.

Natural history of British butterflies. London, Hutchinson & Co., 1924. 2 v., colored plates.

Johnston, T. H., and Hardy, G. H.

Observations regarding the life-cycle of certain Australian blowflies. Proc. Royal Soc. Queensland, v. 35, p. 21-42, Feb. 29, 1924.

Lesne, Pierre.

Les coleopteres bostrychides de l'Afrique tropicale francaise... Ouvrage publie sous les auspices de M. Henri Rothschild, au benefice de l'office centrale de faunistique... Preface de M. E. L. Bouvier... Paris, P. Lechevalier, 1924. 301 p., illus. (Encyclopedie entomologique no. 3.)

Lindner, Erwin.

Die fliegen der palaearktischen region. Stuttgart, E. Schweizerbart'sche Verlagsbuchhandlung, 1924. 1 fig. 1, plates.

Nanking University, College of Agriculture and Forestry.

Tenth annual report, 1923-24. (Nanking Univ. Bul. v. 6, no. 17.) Department of sericulture, p. 53-58.

Newstead, Robert.

Guide to the study of tsetse flies... London, University press of Liverpool limited, 1924. 268 p., illus., 28 plates, 4 maps. (Liverpool School of Trop. Med. Memoirs (New series) No. 1). Bibliography, p. 246-261.

Reese, A. M.

Outlines of economic zoology... 2d ed. Philadelphia, P. Blakiston's Son & Co., 1924. 318 p., illus. References, p. 286-294.

Symes, C. B.

Notes on the black citrus aphis. Rhodesia Agr. Jour., v. 21, no. 6, p. 725-737, illus., Dec., 1924.

Synnesvedt, Paul.

Fighting insect plagues; a treatise on the evils arising from the improper treatment of soils, with some suggestions as to how to correct them. Philadelphia, International Printing Company, 1924. 85 p.

Takahashi, Ryoichi.

Aphididae of Formosa, Pt. 3. Taihoku, Formosa, The Institute, July 1924. 121 p., 11 plates. (Dept. of Agr. Government Research Institute Formosa, Japan Report 10.)

Thaxter, Roland.

Contributions towards a monograph of the Laboulbeniaceae. Pt. 3. Lancaster, Pa., Intelligence Printing Co., Nov. 10, 1924. (American Acad. Arts and Sciences. Memoirs v. 14, no. 5.)

Tokuda, Yoshinobu.

Studies on the honey bee, with special reference to the Japanese honey bee. Sapporo Natural History Society Trans., v. 9, pt. 1, p. 1-28, 1924.

Wolcott, G. N.

Entomologia economica Puertoriquena. San Juan, July, 1924, 176 p. (Puerto Rico Estacion Experimental Insular Bol. 32.)

